

IN THE U.S. PATENT AND TRADEMARK OFFICE

APPLICANTS: Patrick G. Xavier

SERIAL NO.: Unknown GROUP NO.

FILED: September 12, 2003 EXAMINER:

**FOR: CLEARANCE DETECTOR AND METHOD FOR MOTION AND
DISTANCE**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

September 12, 2003

INFORMATION DISCLOSURE STATEMENT

The following sections are being submitted for this Information Disclosure Statement:

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Applicants submit herewith patents, publications or other information of which they are aware, which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose.

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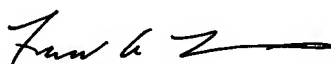
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2. Form PTO - 1449 (Modified).

3. The person making this statement is the attorney or agent who signs below on the basis of the information supplied by the inventor(s) and the information in the attorney's or agent's file.

Dated: 9-11-03

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PTO/SB/08B (10-96)

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Sheet	2	of	2	Attorney Docket Number	SD6909.1/S97535

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		CAMERON, "Collision Detection by 4D Intersection Testing," <i>Int'l J of Robotics Research</i> , Vol. 6, No. 3, pp 291-302 (June 1990)	
		CANNY, J., "Collision Detection for Moving Polyhedra," <i>IEEE Trans. On Pattern Analysis and Machine Intelligence</i> , Vol. 8, No. 2, pp 200-209 (1986)	
		FUCHS, et al., "On Visible Surface Generation by a Priori Tree Structures," <i>Proc. Of ACM SIGGRAPH</i> , pp 124-144 (1980)	
		GILBERT, et al., "Computing the Distance Between General Convex Objects in Three-Dimensional Space," <i>IEEE Trans. On Robotics and automation</i> , Vol. 6, No. 1, pp 53-61 (Feb 1990)	
		GOTTSCHALK, et al., "OBB-Tree: A hierarchical Structure for Rapid Interference Detection," <i>Proc. ACM SIGGRAPH '96</i> , pp 171-180 (August 1996)	
		SATO, et al., "Efficient Collision Detection Using Fast Distance Calculation Algorithms for Convex and Non-Convex objects," <i>Proc. 1996 IEEE Int'l Conf on Robotics and Automation</i> , Minneapolis, Minnesota, pp 771-778 (April 1996)	
		XAVIER, P.G., "Implicit Convex-Hull Distance of Finite-Screw-Swept Volumes, 2002 IEEE Int'l Conf on Robotics and Automation (CRA) (May 2002)	
		XAVIER, P.G., "Fast Swept-Volume Distance for Robust Collision Detection," <i>1977 IEEE Int'l Conf on Robotics and Automation</i> , (1977)	

Examiner Signature		Date Considered	
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				Filing Date		September 12, 2003		
				First Named Inventor		Xavier		
				Group Art Unit				
				Examiner Name				
Sheet	1	of	2	Attorney Docket Number		SD6909.1/S97535		
U.S. PATENT DOCUMENTS								
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		5,537,119	A	A.B. Poore, Jr.	07/16/1996			
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		6,054,991	A	C.A. Crane, et al.	04/25/2000			
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		6,577,925	B1	M.P.J. Fromherz	06/10/2003			
FOREIGN PATENT DOCUMENTS								
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